

**960.1 REQUIREMENTS**

**A.** Timber piling shall conform to ASTM D 25 except as follows:

The circumferences of piles measured under the bark shall have minimum and maximum values as shown in Table 1.

**B.** Piles shall be furnished cut to any of the following lengths as specified by the Engineer: 10 feet, 12½ feet, 16 feet, 20 feet and in multiples of 5 feet for piles longer than 20 feet. (3 meters, 3.8 meters, 4.9 meters, 6 meters and in multiples of 1.5 meters for piles longer than 6 meters). Order lengths of 10 feet and 12½ feet (3 meters and 3.8 meters) may be obtained by cutting 20 foot and 25 foot (6 meter and 7.6 meter) piles. Piling so obtained will be driven full length and cut off after bearing for the first pile is obtained. The remaining cutoff will be used as the second pile. The requirements of the preceding paragraph shall apply to the original full length pile only. Piling shall be treated in accordance with the requirements of Section 950.

**Table 1**  
**Circumferences and Diameters of Timber Piles**

<b>(US Customary)</b>						
<b>Length in Feet</b>	<b>3 Feet from Butt</b>				<b>Tip</b>	
	<b>Minimum</b>		<b>Maximum</b>		<b>Minimum</b>	
	Circum- ference  (Inches)	Diameter (approx- imate)  (Inches)	Circum- ference  (Inches)	Diameter (approx- imate)  (Inches)	Circum- ference  (Inches)	Diameter (approx- imate)  (Inches)
<b>Douglas Fir, Hemlock, Pine, Spruce or Tamarack</b>						
Under 40	35	11	63	20	25	8
40-50 incl.	38	12	63	20	22	7
51-70 incl.	41	13	63	20	22	7
71-90 incl.	41	13	63	20	19	6
<b>Oak and Other Hardwoods, Cypress</b>						
Under 30	35	11	57	18	25	8
30-40 incl.	41	13	63	20	22	7
Over 40	41	13	63	20	19	6
<b>Cedar</b>						
Under 30	35	11	69	22	25	8
30-40 incl.	41	13	69	22	25	8
Over 40	41	13	69	22	22	7

<b>(Metric)</b>						
<b>Length in Meters</b>	<b>One (1) Meter from Butt</b>				<b>Tip</b>	
	<b>Minimum</b>		<b>Maximum</b>		<b>Minimum</b>	
	Circum- ference	Diameter (approx- imate)	Circum- ference	Diameter (approx- imate)	Circum- ference	Diameter (approx- imate)
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
<b>Douglas Fir, Hemlock, Pine, Spruce or Tamarack</b>						
Under 12	890	280	1600	510	630	200
12-15.0 incl.	960	300	1600	510	560	175
15.1-21.0 incl.	1040	330	1600	510	560	175
21.1-27 incl.	1040	330	1600	510	480	150
<b>Oak and Other Hardwoods, Cypress</b>						
Under 9	890	280	1450	460	630	200
9-12 incl.	1040	330	1600	510	560	175
Over 12	1040	330	1600	510	480	150
<b>Cedar</b>						
Under 9	890	280	1750	560	630	200
9-12 incl.	1040	330	1750	560	630	200
Over 12	1040	330	1750	560	560	175